



FCC TEST REPORT

FCC ID: 2ALNA-BTS50

Product	:	Wireless Home Speaker
Model Name	:	BTS50
Brand	:	Tribit
Report No.	:	PTC20092504301E-FC01
Prepared for		
Shenzhen Thousandshores Technology Co., Ltd.		
5/F,Chuangxin Building,Seven-star Creative Square,No.2North Alley,Chuangye 2nd Road, Bao'an Dis 28th,ShenZhen,China		
Prepared by		
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TEST RESULT CERTIFICATION

Applicant's name : Shenzhen Thousandshores Technology Co., Ltd.
Address : 5/F, Chuangxin Building, Seven-star Creative Square, No.2 North Alley, Chuangye 2nd Road, Bao'an Dis 28th, ShenZhen, China
Manufacture's name : Shenzhen Thousandshores Technology Co., Ltd.
Address : 5/F, Chuangxin Building, Seven-star Creative Square, No.2 North Alley, Chuangye 2nd Road, Bao'an Dis 28th, ShenZhen, China
Product name : Wireless Home Speaker
Model name : BTS50
Test procedure : KDB 447498 D01 General RF Exposure Guidance v06
Test Date : September 30, 2020 to November 10, 2020
Date of Issue : November 10, 2020
Test Result : Pass

This device described above has been tested by PTS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink that reads "Leo Yang".

Leo Yang / Engineer

Technical Manager:

A handwritten signature in black ink that appears to read "Chris Du".

Chris Du / Manager



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2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS
Remark:		
N/A: Not Applicable		



3 General Information

3.1 General Description of E.U.T.

Product Name	:	Wireless Home Speaker
Model Number	:	BTS50
Specification	:	Bluetooth 5.0
Operating frequency	:	2402-2480MHz
Modulation	:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channel	:	79
Antenna installation	:	PCB Antenna
Antenna Gain	:	2 dBi
Power supply	:	Input:100-240V~ 50/60Hz 1.2A Output:DC18V 2.5A
Hardware Version	:	N/A
Software Version	:	N/A



4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : FCC Part 2.1091

4.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density



4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } P_d \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$P_d = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

4.4 Test Result

Item	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Result
BT	1.56	-0.466	0.90	0.0003	1	Pass

*****THE END REPORT*****